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SNOW SURVEYS and WATER SUPPLY OUTLOOK for ALASKA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
ALASKA SOIL CONSERVATION DISTRICT

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1976

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bazeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



FEDERAL - STATE - PRIVATE

SNOW SURVEYS

AND

WATER SUPPLY OUTLOOK

FOR

ALASKA

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SPRING IN THE ALASKA RANGE

ALASKA SUMMARY
as of
MAY 1, 1976

Warm temperatures and meager precipitation during April have produced an early breakup in the interior. South coastal areas, however, received at least the normal precipitation increment for the month.

Forecasts of streamflow have been greatly reduced from predictions made a month ago in the interior. Snowmelt runoff from the Anchorage area is still expected slightly above normal, the same as a month ago.

KOYUKUK AND YUKON DRAINAGES

These regions are well into breakup at this time. Well below normal precipitation for April has reduced streamflow forecasts of the area by 6 to 8 percent. The Yukon is now expected to flow 20 to 25 percent below normal for April through July period.

TANANA-CHENA DRAINAGES

All low elevation snow courses have melted bare and all high elevation courses show a decrease from a month ago. Streamflow in the Chena River is now forecast to flow 36 percent below normal through July. But this is not quite as low as the recent low flow years of 1969, 1970, and 1974. Forecasts are based on average precipitation falling during May, June, and July.

COPPER DRAINAGE

Very little snow remained on the basin floor at survey time. This years snowpack was far below normal and similar to the years 1969 and 1970.

MATANUSKA-SUSITNA DRAINAGES

Snowfall for April was near normal in these regions. The total winters snowpack was about average in the Matanuska and Lower Susitna Valleys. Higher elevations of the Upper Susitna basin improved its snowpack to within 15 to 20 percent of normal.

UPPER COOK INLET

Snowfall in Ship Creek during April was just about average. Expected streamflow remains a little above normal through July.

KENAI PENINSULA

Snowfall over the Kenai Peninsula continued above normal. Snow courses in the vicinity of Turnagain Pass and Kenai Summit are now at least 20 percent above average. The St. Augustine volcanic ash layer is greatly speeding up snowmelt once it is exposed.

SOUTHEAST

Southeast Alaska's watersheds are still burdened with extremely heavy snowpacks. Some areas are the heaviest for the twelve year period of record.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year <u>2/</u>	Average [†]
YUKON RIVER at Eagle	27,500	80	April-July	44,523	34,295
PORCUPINE RIVER near Ft. Yukon	5,500	77	April-July	---	7,200 *
SALCHA RIVER near Salchaket	460	60	April-July	706	767
CHENA RIVER at Fairbanks	360	64	April-July	505	560
LITTLE CHENA RIVER near Fairbanks	60	64	April-July	76	93 *
YUKON RIVER at Ruby	51,000	76	April-July	66,991	67,012
SHIP CREEK near Anchorage <u>1/</u>	62	105	April-July	58	59
SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	14.8	111	April-July	13.5	13.3

1/ Measured flow adjusted for diversion.
2/ Provisional data, subject to revision.
* Estimated

SNOW

SNOW			THIS YEAR			PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Years of Previous Record
NAME	Number	Elevation				Last Year	Average †	
AS OF APRIL 15, 1976								
KOYUKUK DRAINAGE:								
Cold Foot Camp	107	1000	4/14	27	7.1	5.5	---	1
Dietrich Camp	106	1520	4/14	18	4.3	4.0	---	1
Prospect Creek Camp	108	1100	4/14	26	7.0	N/S	---	-
Snowden Mountain	111	1900	N O S U R V E Y			N/S	---	-
Table Mountain	110	2200	4/14	23	5.5	N/S	---	-
TANANA-CHENA:								
Caribou Mine	28	1115	4/16	13a	3.3e	6.0e	4.9	10
Cleary Summit	18	2230	4/16	25a	6.7e	8.5e	7.2	13
Little Chena	19	2200	4/16	22a	5.3e	6.3e	5.7	14
Mt. Ryan	20	2950	4/16	24a	5.9e	8.0e	8.2	14
Munson Ridge	23	3100	4/16	47a	14.6e	17.0e	15.6	14
Upper Chena	75	3000	4/16	30a	8.4e	8.0e	6.5	6
Wolf Creek	76	3850	4/16	15a	3.6e	4.0e	3.3	6
YUKON DRAINAGE:								
Five Mile	109	400	N O S U R V E Y			N/S	---	-
AS OF MAY 1, 1976								
KOYUKUK DRAINAGE:								
Cold Foot Camp	107	1000	4/28	20	5.5	5.1	3.9	5
Dietrich Camp	106	1520	4/28	0	0.0	0.0	2.0	5
Glacier Creek	113	2000	N O S U R V E Y			N/S	4.3	3
Jim River	115	1900	N O S U R V E Y			N/S	---	2
Kupuk Creek	112	2300	N O S U R V E Y			N/S	2.2	3
Prospect Creek Camp	108	1100	4/28	13	3.5	3.6	6.0	5
Snowden Mountain	111	1900	4/28	12	3.8	N/S	2.0	3
Table Mountain	110	2200	4/28	10	3.0	N/S	3.8	3
West Buttons	114	1600	N O S U R V E Y			N/S	---	2
a - aerial marker			e - estimated			N/S - No Survey		

+ 1958-1972 period.

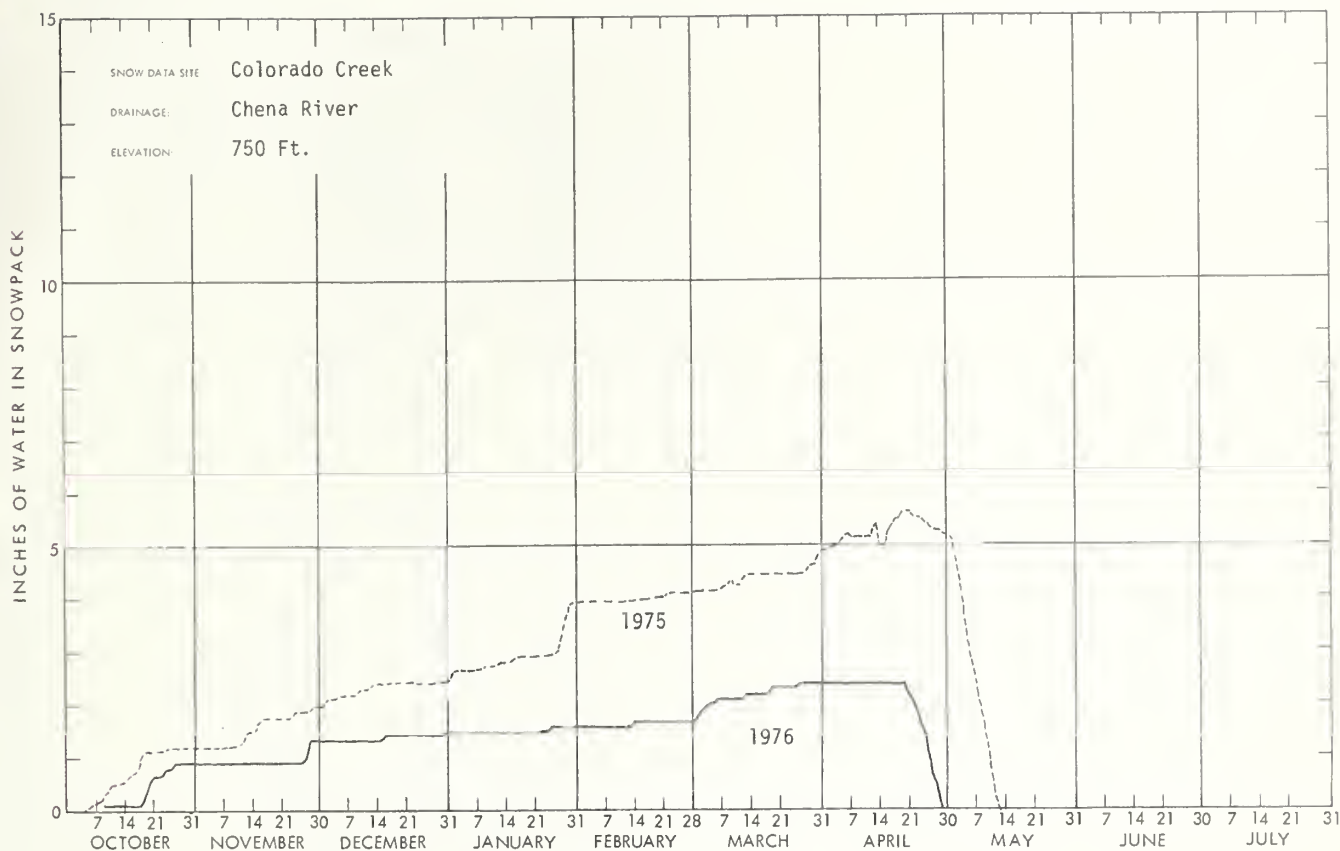
SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Years of Previous Record
						Last Year	Average †	
NAME	Number	Elevation						
<u>YUKON DRAINAGE:</u>								
Five Mile	109	400	4/28	0	0.0	4.3	4.6	4
Log Cabin	69	2880	4/30	40	14.6	14.3	11.6	18
Thirty Mile	116	1300	N O	S U R V E Y		N/S	---	2
<u>TANANA-CHENA:</u>								
Big Delta	29	975	5/1	0	0.0	.7	.3	15
Bonanza Creek	82	1150	5/1	0	0.0	6.0e	4.5	8
Caribou Creek	103	1440	5/3	0	0.0	3.7	3.4	5
Caribou Mine	28	1115	5/3	0	0.0	7.1	4.6	10
Cleary Summit	18	2230	N O	S U R V E Y		9.6	7.9	15
Colorado Creek	27	750	5/3	0	0.0	6.3	3.7	10
Donnelly Dome	80	2200	N O	S U R V E Y		5.9	5.4	9
Fielding Lake	33	3000	5/1	27	8.0	18.1	12.7	15
Fort Greely	78	1420	5/1	0	0.0	T	1.6	9
French Creek	24	2010	5/2	0	0.0	8.0	6.3	13
Granite Creek	81	1240	5/1	0	0.0	T	1.3	8
Haystack Mountain	102	1950	4/29	18	3.6	7.5e	7.7	6
Little Chena	19	2200	N O	S U R V E Y		7.6	6.1	14
Little Salcha	25	1500	5/2	0	0.0	6.7	4.4	13
Meadows Road	79	1570	N O	S U R V E Y		1.8	1.2	9
Mentasta Pass	31	2430	5/1	1	.3	5.4	6.0	14
Monument Creek	127	1900	N O	S U R V E Y		6.9	5.4	3
Mt. Ryan	20	2950	N O	S U R V E Y		9.6	9.0	14
Munson Ridge	23	3100	5/3	36	11.3	19.4	14.5	14
Poker Creek (Crrel)	104	1025	4/30	0	0.0	3.5e	2.9	6
Teuchet Creek	126	1640	5/3	0	0.0	6.5	2.8	3
Tok Junction	20	1650	5/1	0	0.0	T	1.4	14
Upper Chena	75	3000	N O	S U R V E Y		8.9	9.5	8
Wolf Creek	76	3850	N O	S U R V E Y		N/S	5.6	6
Yak Pasture	17	540	5/1	0	0.0	3.4	2.1	15
<u>COPPER RIVER:</u>								
Haggard Creek	34	2540	5/1	3	.6	6.6	5.5	10
Little Nelchina	40	4160	4/30	20a	5.2e	7.7e	6.0	7
Mankomen Lake	32	3050	5/1	16	3.4	8.5	6.7	8
St. Anne's Lake	54	1985	4/30	11a	2.8e	6.1	3.1	10
Sanford River	37	2280	4/30	3a	.6e	5.9e	3.1	9
Tsaina River	119	1550	4/28	38	12.3	16.9	12.5	4
Worthington Glacier	55	2400	4/28	63	23.0	28.2	20.8	18
<u>MATANUSKA-SUSITNA:</u>								
Alexander Lake	49	200	4/30	29a	9.6e	14.0e	9.2	10
Bald Mountain Lake	47	2150	4/30	18a	5.4e	13.4e	9.8	11
Chelatna Lake	44	1650	4/30	37a	10.8e	15.8e	11.3	10
Clearwater Lake	36	3100	4/30	12	3.2	7.8e	4.6	11
Fog Lakes #2	96	2250	4/30	14a	3.5e	8.0	6.4	6
Independence Mine	51	3300	4/30	59	20.5	26.4	22.5	6
Lake Louise	41	2400	4/30	10	2.2	4.9	3.5	11
Monahan Flat	35	2710	4/30	24	6.6	11.6	7.8	11
Oshetna Lake	39	2950	4/30	10a	2.2e	5.5	3.6	11
Peters Hills	45	2010	4/30	55a	16.5e	19.5	16.9	8
Sheep Mountain #2	120	2900	4/28	17	4.4	5.2	3.9	4
Skwentna	48	158	4/30	21	6.7	11.7	7.0	9
Talkeetna	46	350	4/30	20	6.1	12.2	6.8	9
Willow Airstrip	50	150	4/30	0	0.0	10.6	3.2	10
a - aerial marker reading			e - estimated			T - Trace		
						N/S - No Survey		

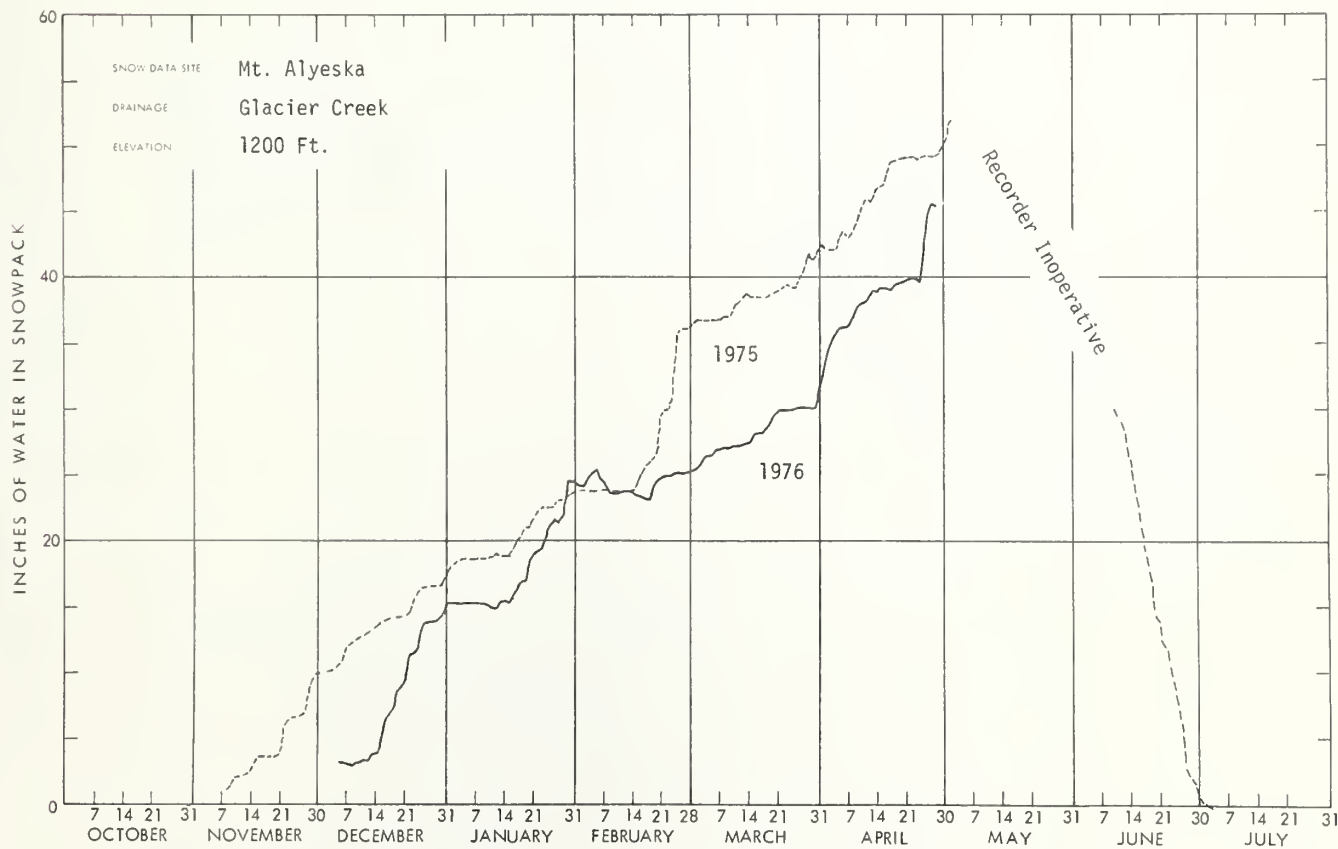
SNOW

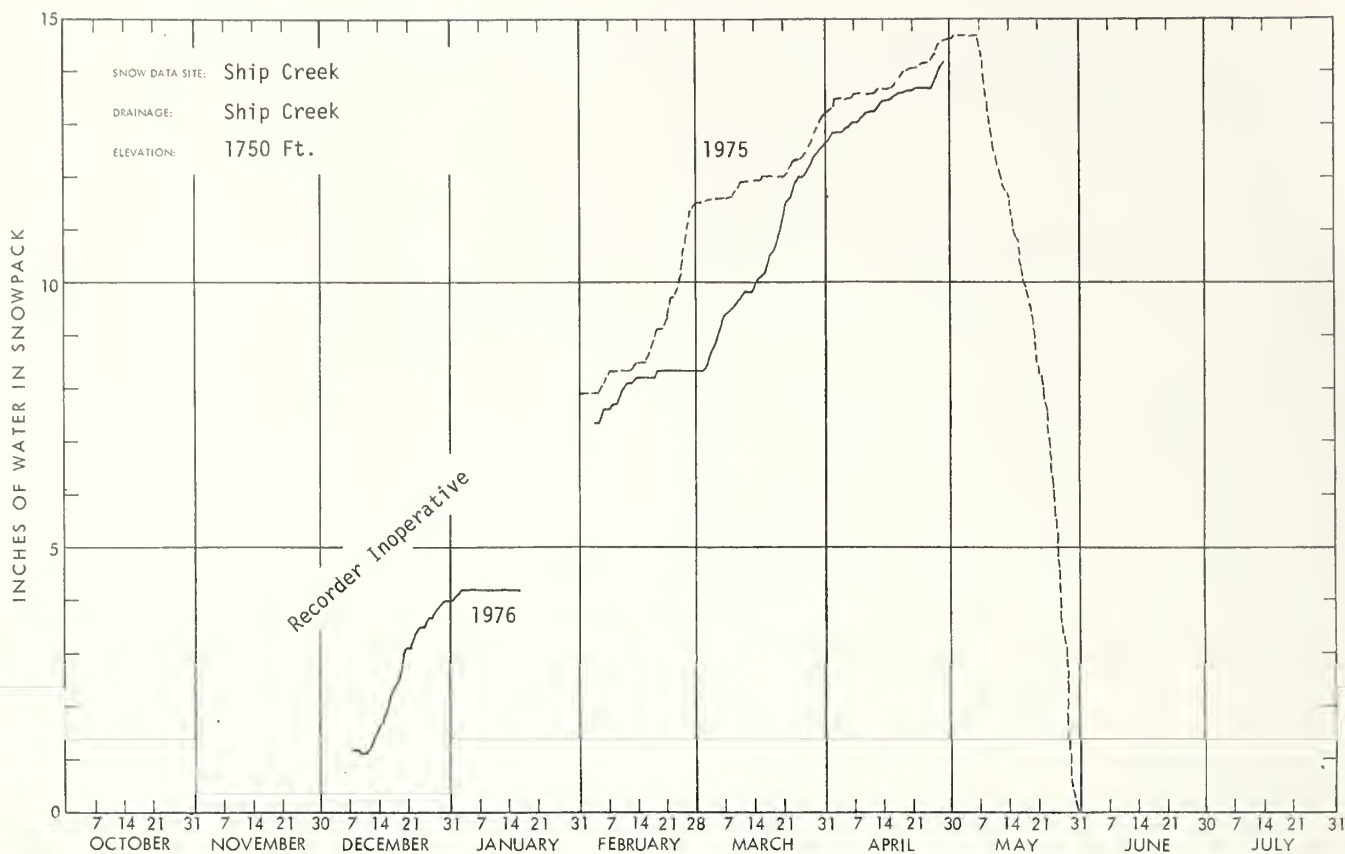
DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Years of Previous Record
NAME	Number	Elevation				Last Year	Average +	
<u>UPPER COOK INLET DRAINAGES:</u>								
Arctic Ski Bowl	65	3000	5/3	29	11.0	17.6	12.8	11
Arctic Valley #1	61	500	5/3	0	0.0	4.0	.4	11
Arctic Valley #2	62	1000	5/3	0	0.0	5.7	.8	11
Arctic Valley #3	63	2030	5/3	5	1.2	8.2	3.2	11
Arctic Valley #4	64	2330	5/3	8	2.3	8.8	4.1	11
Bird Creek	66	2350	4/29	62	23.7	26.3e	19.2	9
Indian Pass	68	2350	4/29	70	25.5	25.4	22.8	9
McArthur	52	120	4/30	53a	18.5e	20.5	16.3	9
Mt. Alyeska	128	1200	4/29	117	44.7	51.9	44.9	3
Ship Creek	67	1750	4/29	36	12.5	14.7	11.0	9
South Campbell Creek	129	1200	4/29	18	5.4	11.1	6.4	3
<u>PRINCE WILLIAM SOUND:</u>								
Lowe River	118	550	4/28	38	13.4	15.4	9.4	3
Valdez	117	50	4/28	44	17.7	17.3	13.3	3
<u>KENAI PENINSULA:</u>								
Bertha Creek	98	850	4/29	59	20.4	19.5	16.0	5
Bridge Creek, Lower	122	1100	5/3	38	14.4	19.0	12.2	4
Bridge Creek, Upper	121	1300	5/3	41	14.6	19.7	12.8	4
Jean Lake	101	620	4/29	0	0.0	4.3	1.5	6
Kenai Summit	99	1390	4/29	33	12.4	12.1	10.4	6
Moose Pass	100	700	4/29	18	5.1	8.2	3.5	6
<u>SOUTHEAST ALASKA:</u>								
Crater Lake	73	1750	NO SURVEY			82.8e	72.3	11
Douglas Ski Bowl	84	1640	DE L A Y E D R E P O R T			56.9	43.0	8
Harriet Top	123	2000	NO SURVEY			N/S	70.4	3
Hunt Saddle	124	1500	NO SURVEY			N/S	53.6	3
Lake Shore	125	660	NO SURVEY			N/S	26.9	3
Long Lake	71	1075	NO SURVEY			61.8e	49.9	11
Speel River	72	275	5/3	98	47.4	40.6	32.5	11
Upper Long Lake	70	1000	NO SURVEY			48.0	47.5	11

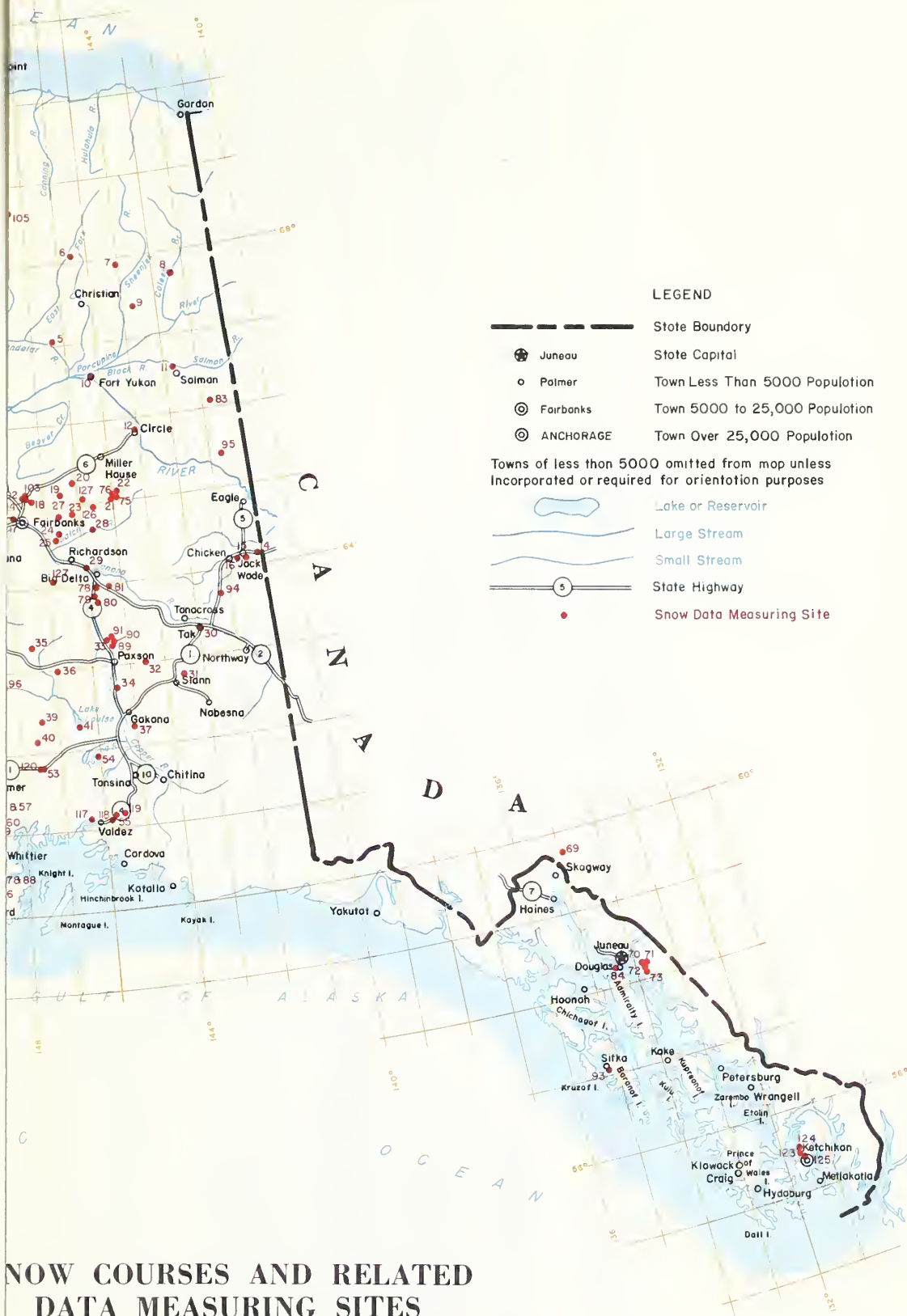
+ 1958-1972 period.



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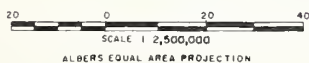


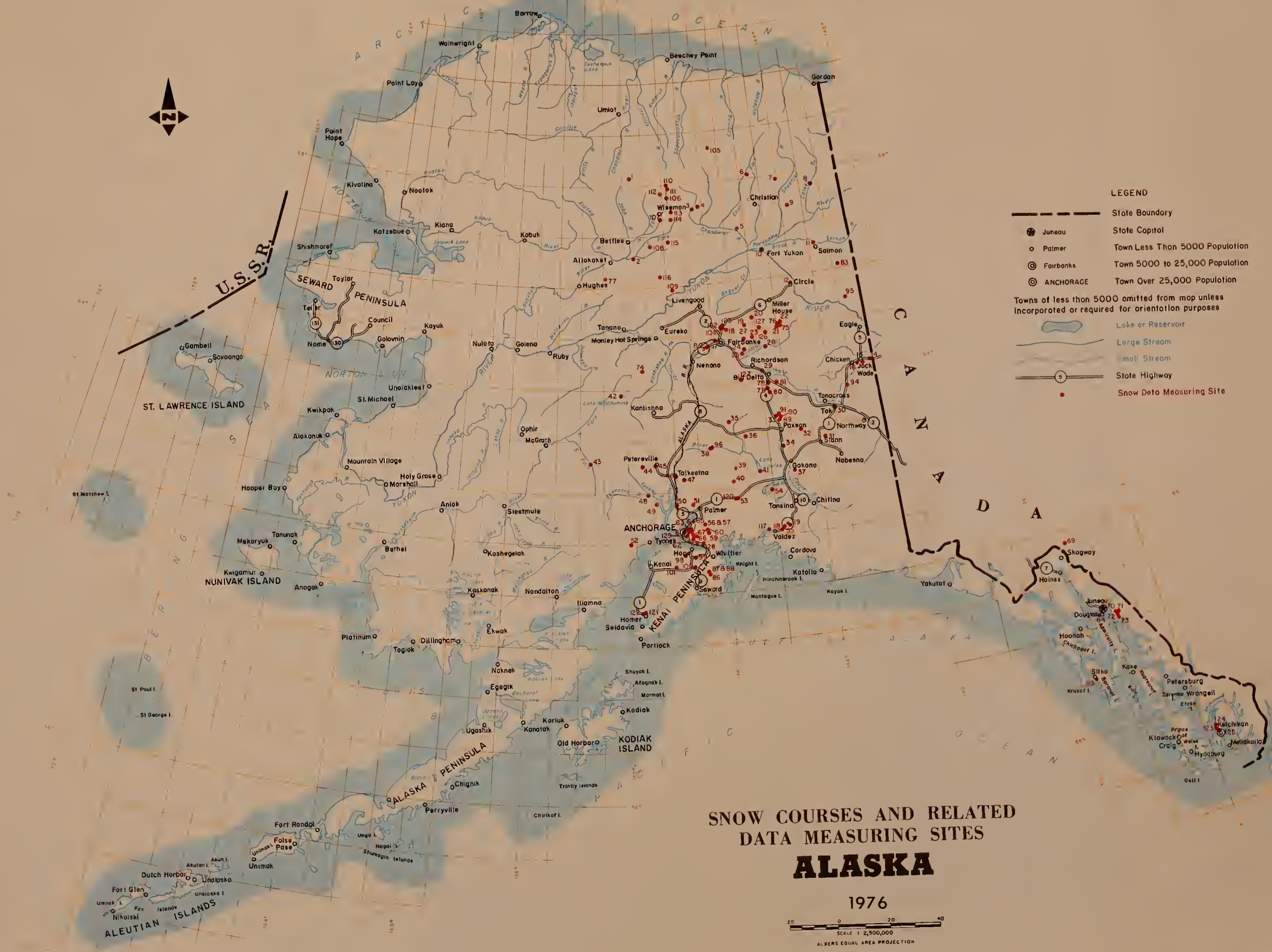


NOW COURSES AND RELATED
DATA MEASURING SITES

ALASKA

1976





SNOW COURSES AND RELATED
DATA MEASURING SITES

ALASKA

1976

20 0 20 40
SCALE 1:2,500,000
ALBERS EQUAL AREA PROJECTION

MAP NO.	COURSE NAME	C	LONG.	MEAS. DATES *	MEAS. * BY
1	Anaktuvuk Pass	51°N	145°50'W	1,2,3,4,5,7	a
2	Bettles Field	51°N	145°43'W	1,2,3,4,5,7	a
3	Chandalar Lake	48°N	145°24'W	1,2,3,4,5,7	a
4	Squaw Lake	48°N	148°20'W	2,3,4,5	b
5	Venetie	46°N	141°48'W	3,4	a
6	Arctic Village	45°N	134°27'W	3,4,5	b
7	Koness Lake	44°N	148°54'W	1,2,4,5,6,7	g
8	Coleen River	42°N	148°55'W	2,3,4,5,6,7	g
9	Vundik Lake	43°N	148°55'W	1,2,4,6,7	g
10	Fort Yukon	45°N	145°29'W	2,3,4,5,6,7	g
11	Black River	42°N	145°26'W	2,3,4,5,6,7	g
12	Circle City	44°N	145°29'W	5,6,7	g
14	Eagle Village	41°N	135°10'W	3,4,5	b
15	Boundary	41°N	142°17'W	3,4,5	a
16	Chicken Airstrip	41°N	141°40'W	3,4	a
17	Yak Pasture	47°N	148°29'W	2,3,4,5	a,c
18	Cleary Summit	47°N	149°51'W	2,3,4,5	a
19	Little Chena	46°N	149°28'W	2,3,4,5	a
20	Mt. Ryan	46°N	149°30'W	2,3,4,5	a
21	Chena Hot Springs	46°N	150°11'W	2,3,4,5	a
22	Big Windy	44°N	147°38'W	2,3,4,5	d
23	Munson Ridge	46°N	147°35'W	2,3,4,5	d
24	French Creek	46°N	147°32'W	2,3,4,5,7	d
25	Little Salcha	46°N	147°30'W	3,4,5	f
27	Colorado Creek	46°N	149°45'W	2,3,4,5	f
28	Caribou Mine	45°N	150°10'W	1,2,3,4	f
29	Big Delta	45°N	150°45'W	2,3,4,5	f
30	Tok Junction	45°N	149°48'W	2,3,4,5	f
31	Mentasta Pass	45°N	149°45'W	2,3,4,5	f
32	Mankomen Lake	44°N	149°41'W	2,3,4,5	f
33	Fielding Lake	45°N	150°08'W	2,3,4,5	f
34	Haggard Creek	45°N	149°31'W	2,3,4,5	f
35	Monahan Flat	47°N	149°34'W	2,3,4,5	f
36	Clearwater Lake	46°N	149°50'W	2,3,4,5	f
37	Sanford River	45°N	150°15'W	2,3,4,5	f
38	Fog Lakes	46°N	146°20'W	2,3,4,5	a
39	Oshetna Lake	47°N	145°50'W	3,4,5	a
40	Little Nelchina	47°N	145°30'W	3,4,5	a
41	Lake Louise	46°N	147°30'W	3,4,5	a
42	Lake Minchumina	52°N	151°28'W	3,4,5	a
43	Farewell Lake	53°N	151°32'W	3,4,5	a
44	Chelatna Lake	51°N	131°37'W	3,4,5	b
45	Peters Hills	50°N	131°37'W	3,4,5	b
46	Talkeetna	50°N	131°36'W	3,4,5	b
47	Bald Mt. Lake	45°N	145°31'W	2,3,4,5	a
48	Skwentna	51°N	145°55'W	2,3,4,5	a
49	Alexander Lake	50°N	149°05'W	2,3,4,5	b,a
50	Willow Airstrip	50°N	149°42'W	2,3,4,5	a
51	Independence Mine	45°			
52	McArthur	52°			
53	Sheep Mountain	47°			
54	St. Anne's Lake	46°			
55	Worthington Glacier	45°			
56	Moraine	48°			
57	Ptarmigan	48°			
59	Goat	48°			
60	Grizzly	48°			
61	Arctic Valley #1	45° to January 1,			
62	Arctic Valley #2	45° to June 1,			
63	Arctic Valley #3	45°			
64	Arctic Valley #4	45°			
65	Arctic Ski Bowl	45° before the snow			
66	Bird Creek	45°			
67	Ship Creek	45°			
68	Indian Pass	45°			
69	Log Cabin (B.C.)	34°			
70	Upper Long Lake	33° toh & Eng. Lab			
71	Long Lake	33°			
72	Speel River	33°			
73	Crater Lake	33°			
74	Wien Lake	5°			
75	Upper Chena	45° see no. refer to:			
76	Wolf Creek	45° marker			
77	Lake Todatonten	51°			
78	Ft. Greely	41°			

AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

FEDERAL

Atomic Energy Commission

Department of Agriculture

Forest Service

Institute of Northern Forestry

North Tongass National Forest

South Tongass National Forest

Chugach National Forest

Department of Commerce

National Oceanic and Atmospheric Administration

NOAA National Weather Service

Department of Defense

U.S. Army Corps of Engineers

U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior

Bureau of Land Management

Geological Survey

Alaska Power Administration

STATE

Alaska Department of Highways

Alaska Soil Conservation District

Fairbanks Soil Conservation Sub-district

Homer Soil Conservation Sub-district

Kenai-Kasilof Soil Conservation Sub-district

Kenny Lake Soil Conservation Sub-district

Kodiak Soil Conservation Sub-district

Montana Soil Conservation Sub-district

Ninilchik Soil Conservation Sub-district

Palmer Soil Conservation Sub-district

Salcha-Big Delta Soil Conservation Sub-district

Wasilla Soil Conservation Sub-district

University of Alaska

BOROUGH

Greater Anchorage Area Borough

MUNICIPALITIES

City of Anchorage

PRIVATE

Mt. Alyeska Resort, Inc.

INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Anaktuvuk Pass	51TT1A	2100	68°09'N	151°41'W	3,4	a
2	Bettles Field	51RR1A	640	66°35'N	151°32'W	3,4	a
3	Chandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
4	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
5	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
6	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
7	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
8	Colleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
9	Vundik Lake	43SS1a	950	67°23'N	143°45'W	3,4	a
10	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
11	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
12	Circle City	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
14	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	a
15	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	a
16	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	a
17	Yak Pasture	47PP1	540	64°52'N	147°55'W	2,3,4,5	a
18	Clairy Summit	47QQ1A	2230	65°03'N	147°24'W	1,2,3,4,5,7	a
19	Little Chena	46QQ2AP	2200	65°08'N	146°32'W	2,3,4,5,7	a
20	Mt. Ryan	46QQ1AP	2950	65°16'N	146°07'W	2,3,4,5,7	a
21	Chena Hot Springs	45QQ1	1250	65°03'N	145°03'W	2,3,4,5,7	a
22	Big Windy	44QQ2AP	3850	65°07'N	144°52'W	2,3,4,5,7	a
23	Munson Ridge	46PP1AP	3100	64°52'N	146°13'W	2,3,4,5,7	a
24	French Creek	46PP2MA	2010	64°43'N	146°40'W	2,3,4,5,7	a
25	Little Salcha	46PP3	1500	64°38'N	146°44'W	2,3,4,5,7	a
27	Colorado Creek	46PP4S	750	64°52'N	146°39'W	1,2,3,4,5,7	a
28	Caribou Mine	45PP2A	1115	64°40'N	145°40'W	2,3,4,5,7	a
29	Big Delta	45PP1	980	64°14'N	145°58'W	2,3,4,5	a
30	Tok Junction	43001	1650	63°18'N	143°00'W	2,3,4,5	a
31	Mentasta Pass	43NN1	2430	62°51'N	143°30'W	2,3,4,5	a
32	Mankomen Lake	44NN1	3050	63°00'N	144°32'W	2,3,4,5	a
33	Fielding Lake	45001A	3000	63°18'N	145°33'W	2,3,4,5	a
34	Haggard Creek	45NN1A	2540	62°42'N	145°28'W	2,3,4,5	a
35	Monahan Flat	47001A	2710	63°18'N	147°39'W	2,3,4,5	a,c
36	Clearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c
37	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c
38	Fog Lakes	48NN1A	2270	62°47'N	148°30'W	2,3,4,5	a,c
39	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c
40	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c
41	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c
42	Lake Minchumina	52001A	730	63°53'N	152°18'W	3,4	a
43	Farewell Lake	53NN1A	1090	62°34'N	153°35'W	3,4	a
44	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c
45	Peters Hills	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c
46	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c
47	Bald Mt. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c
48	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c
49	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c
50	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c
51	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a
52	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c
53	Sheep Mountain	47MM1	2700	61°47'N	147°29'W	3,4,5	a
54	St. Anne's Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c
55	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a
56	Moraine	48MM1	2100	61°22'N	148°59'W	3,4,5,7	e
57	Ptarmigan	48MM2	3000	61°22'N	148°59'W	3,4,5,7	e
59	Goat	48MM7A	3200	61°14'N	148°51'W	3,4,5,7	e
60	Grizzly	48MM4A	5000	61°15'N	148°56'W	3,4,7	e
61	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c
62	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c
63	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c
64	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c
65	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c
66	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a
67	Ship Creek	49MM7MPS	1750	61°08'N	149°28'W	2,3,4,5	a
68	Indian Pass	49MM8A	2350	61°05'N	149°29'W	2,3,4,5	a
69	Log Cabin (B.C.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
70	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
71	Long Lake	33JJ1A	1080	58°12'N	133°47'W	3,4,5,6,7	e
72	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
73	Crater Lake	33JJ4a	1750	58°08'N	133°43'W	3,4,5,6,7	e
74	Wien Lake	51PP1A	1020	64°22'N	151°18'W	3,4	a
75	Upper Chena	44QQ1AP	3000	65°07'N	144°55'W	2,3,4,5,7	a
76	Wolf Creek	44QQ4a	3850	65°08'N	144°57'W	2,3,4,5,7	a
77	Lake Todatonten	52RR1a	980	66°10'N	152°55'W	3,4	a
78	Ft. Greely	45005	1420	63°57'N	145°45'W	1,2,3,4,5,7	a

MAP NO.	COURSE NAME	COURSE NO. *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
79	Meadows Road	45002	1570	63°52'N	145°50'W	1,2,3,4,5,7	a
80	Oonnelly Oome	45003	2200	63°47'N	145°43'W	1,2,3,4,5,7	a
81	Granite Creek	45004	1240	63°57'N	145°24'W	1,2,3,4,5,7	a
82	Bonanza Creek	48PP1	1150	64°45'N	148°20'W	2,3,4,5	b
83	Oempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
84	Oouglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
86	Wolverine Glacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	g
87	Wolverine Glacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	g
88	Wolverine Glacier (C)	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g
89	Gulkana Glacier (A)	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	g
90	Gulkana Glacier (B)	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	g
91	Gulkana Glacier (C)	45008	6360	63°19'N	145°29'W	5,6,7	g
93	Blue Lake	35112	950	57°04'N	135°10'W	3,4,5	b
94	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	a
95	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	a
96	Fog Lakes #2	48NN2A	2250	62°47'N	148°29'W	2,3,4,5	a,c
98	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a
99	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a
100	Moose Pass	49LL4	700	60°31'N	149°30'W	2,3,4,5	a
101	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a
102	Haystack Mtn.	47QQ2	1950	65°08'N	147°38'W	2,3,4,5	d
103	Caribou Creek	47QQ3	1440	65°09'N	147°35'W	2,3,4,5	d
104	Poker Creek	47QQ4S	1025	65°08'N	147°32'W	2,3,4,5,7	d
105	Elusive Lake	47TT1A	1800	68°39'N	147°30'W	3,4,5	f
106	Oietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	f
107	Cold Foot Camp	50SS1	1000	67°16'N	150°10'W	1,2,3,4	f
108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	f
109	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	f
110	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	f
111	Snowden Mtn.	49SS4a	1900	67°50'N	149°41'W	2,3,4,5	f
112	Kupuk Creek	50SS2a	2300	67°48'N	150°08'W	2,3,4,5	f
113	Glacier Creek	49SS2a	2000	67°28'N	149°31'W	2,3,4,5	f
114	West Buttons	49SS5a	1600	67°17'N	149°34'W	2,3,4,5	f
115	Jim River	49RR1a	1900	66°51'N	149°50'W	2,3,4,5	f
116	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	f
117	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a
118	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a
119	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a
120	Sheep Mtn. #2	47MM2	2900	61°47'N	147°30'W	3,4,5	a
121	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a
122	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a
123	Harriet Top	31GG1	2000	55°29'N	131°37'W	3,4,5	b
124	Hunt Saddle	31GG2	1500	55°30'N	131°37'W	3,4,5	b
125	Lake Shore	31GG3	660	55°29'N	131°36'W	3,4,5	b
126	Teuchet Creek	45PP3	1640	64°57'N	145°31'W	2,3,4,5	a
127	Monument Creek	45QQ2	1900	65°03'N	145°55'W	2,3,4,5	a
128	Mt. Alyeska	49LL15S	1200	60°57'N	149°05'W	2,3,4,5	b,a
129	South Campbell Creek	49MM11	1200	61°08'N	149°42'W	2,3,4,5	a

LEGEND

* Numerals 1,2,3,4,5, and 6 refer to January 1, February 1, March 1, April 1, May 1, June 1, and 7 - for special dates.

* Letters refer to Agency that secures the snow survey, as follows:
a. Soil Conservation Service
b. Forest Service
c. U. S. Army Corps of Engineers
d. U. S. Army Cold Regions Research & Eng. Lab
e. Alaska Power Administration
f. Bureau of Land Management
g. U. S. Geological Survey

* Letters following the snow course no. refer to:
* A. Snow course and aerial stadia marker
* a. Aerial stadia marker only
M. Soil Moisture Station
P. Precipitation Storage Gage
S. Snow Pillow

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